

(FILE 'HOME' ENTERED AT 13:30:02 ON 11 MAY 2005)

FILE 'REGISTRY' ENTERED AT 13:30:13 ON 11 MAY 2005

	E ASCORBIC ACID/CN
L1	2 S E3
	E MANNITOL/CN
L2	2 S E3
	E TREHALOSE/CN
L3	1 S E3
	E DIMETHYLSULFOXIDE/CN
	E DMSO/CN
L4	1 S E3
	E BUTYLATEDHYDROXYTOLUENE/CN
	E BHT/CN
L5	2 S E3
	E 128-37-0
L6	1 S E3
	E DIMETHYLTHIOUREA/CN
L7	1 S E3
	E GLATATHIONE/CN
	E GLUTATHIONE/CN
L8	1 S E3
	E LIPOIC ACID/CN
L9	2 S E3
	E TROLOX/CN
L10	1 S E3
	E URIC ACID/CN
L11	1 S E3
	E ALBUMIN/CN
	E HISTIDINE/CN
L12	2 S E3
	E N-ACETYL CYSTEINE/CN
	E N-ACETYLCYSTEINE/CN
L13	1 S E3
	E TRYPTOPHAN/CN
L14	2 S E3
	E N-ACETYLTRYPTOPHAN/CN
L15	1 S E3
	E METHIONINE/CN
L16	2 S E3
	E CYSTEINE/CN
L17	2 S E3
	E N-TERT-BUYL-ALPHA-PHENYL NITRONE/CN
	E N-TERTBUYLALPHAPHENYL NITRONE/CN
	E N-TERT-BUTYLALPHAPHENYL NITRONE/CN
	E N-TERT-BUTYL-ALPHAPHENYL NITRONE/CN
	E N-TERT-BUTYL-PHENYL NITRONE/CN
	E N-TERT-BUTYL-ALPHA-PHENYLNITRONE/CN
L18	1 S E4

FILE 'CAPLUS, BIOSIS, MEDLINE' ENTERED AT 13:40:22 ON 11 MAY 2005

L19	606356 S L1 OR L2 OR L3 OR L4 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR
L20	12551 S STERIL? (P) (TISSUE OR BONE)
L21	192 S L19 AND L20
L22	1459 S STERIL? (5W) (TISSUE OR BONE)
L23	14 S L19 AND L22
L24	19 S L21 AND (GAMMA)
L25	25 S L21 AND (RADIAT? OR IRRADIAT?)
L26	15 S L25 NOT L24

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L1: Entry 1 of 1

File: DWPI

Jul 11, 1990

DERWENT-ACC-NO: 1990-362168  
DERWENT-WEEK: 199632  
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TITLE: Prepn. of sterile implant of human or animal tissue - by treatment with  
radio-protective material before freezing and sterilisation by irradiation

INVENTOR: FREISTEDT, B; MATTHES, G ; VONVERSEN, R ; VON VERSEN, R

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
HUMBOLDT-UNIV BERLIN	UYBE
UNIV BERLIN HUMBOLDT	UYBE

PRIORITY-DATA: 1989DD-0326463 (March 10, 1989)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">DD 280466 A</a>	July 11, 1990		000	
<input type="checkbox"/> <a href="#">DD 280466 B5</a>	June 13, 1996		000	A61K038/39

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DD 280466A	March 10, 1989	1989DD-0326463	
DD 280466B5	March 10, 1989	1989DD-0326463	

INT-CL (IPC): A61F 2/10; A61K 37/12; A61K 38/39

ABSTRACTED-PUB-NO: DD 280466A  
BASIC-ABSTRACT:

In prepn of sterile tissue implants from human or animal tissue, the rinsed, degreased and hydrated tissue is treated immediately before freezing with a 5-95% soln of a radio-protective agent, for 0.5-6 h, followed by shaping of the material and sterilisation by radiation.

Pref the radiation-protectant is a polyol, eg glycol, triethylene glycol, erythritol or pentitol and/or DMSO, pref a 30% aq soln of propylene glycol.

ADVANTAGE - The material has high tensile strength and seam strength, has the required soft consistency, and can be stored for several years. Recontamination

after sterilisation is avoided. @(3pp dwg.No.0/0)

TITLE-TERMS: PREPARATION STERILE IMPLANT HUMAN ANIMAL TISSUE TREAT RADIO PROTECT  
MATERIAL FREEZE STERILE IRRADIATE

DERWENT-CLASS: D22 E17 P32

CPI-CODES: D09-A; D09-C01; E10-A07; E10-A10A; E10-E04H; E10-E04J;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

H4 H402 H403 H404 H405 H482 H483 H484 H582 H8  
L810 L818 L821 L833 M280 M312 M313 M314 M315 M316  
M321 M323 M331 M332 M333 M334 M342 M343 M344 M383  
M391 M393 M416 M620 M781 M903 M904 Q261 R023 R046

Markush Compounds

199049-A2201-U

Registry Numbers

1327U 0502U

Chemical Indexing M3 \*02\*

Fragmentation Code

C216 K0 K4 K442 M210 M211 M271 M282 M320 M416  
M620 M781 M903 M904 M910 Q261 R023 R046

Specific Compounds

00274U

Registry Numbers

1327U 0502U

UNLINKED-DERWENT-REGISTRY-NUMBERS: Q137U; 0274U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-157416

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## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
SU 1743587	ICM	A61B017-00
	ICA	A01N001-02

AB Bronchi are stitched using a protective wrapping of foreign peritoneal tissue to minimize perforation of the bronchus. The peritoneal tissue is sterilized to optimize healing and stimulate regeneration by first soaking it in 70-80% EtOH at -30 - -40° for 20-30 min, dried under neg. pressure, and soaked in physiol. saline contg. ascorbic acid, nicotinic acid, kanamycin, and ampiox.

ST bronchus stitching peritoneal wrapping sterilization

IT **Sterilization** and Disinfection

(of peritoneal **tissue** for use in stitching of bronchi)

IT Bronchi

(stitching of, peritoneal tissue for, sterilization of)

IT Peritoneum

(tissue of, for stitching of bronchi, sterilization)

IT Medical goods

(sutures, for bronchus stitching, **sterilized** peritoneal **tissue** in)

IT 50-81-7, Ascorbic acid, uses 59-67-6, Nicotinic acid, uses

64-17-5, Ethanol, uses 8063-07-8, Kanamycin 61356-25-0, Ampiox

RL: USES (Uses)

(in **sterilization** of peritoneal **tissue** for use in stitching of bronchi)

L23 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

Full Text	Citing References
AN 1991:117857 CAPLUS	
DN 114:117857	
ED Entered STN: 06 Apr 1991	
TI Treatment of animal tissue implants with radioprotectants prior to radiochemical sterilizations	
IN Freistedt, Bernd; Von Versen, Ruediger; Matthes, Gert	
PA Humboldt-Universitaet zu Berlin, Ger. Dem. Rep.	
SO Ger. (East), 3 pp.	
CODEN: GEXXA8	
DT Patent	
LA German	
IC ICM A61K037-12	
CC 8-7 (Radiation Biochemistry)	
Section cross-reference(s): 63	

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DD 280466	A1	19900711	DD 1989-326463	19890310
DD 280466	B5	19960613		
PRAI DD 1989-326463		19890310		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DD 280466	ICM	A61K037-12

AB **Sterile** animal or human **tissue** implants, for reconstructive surgery, are obtained by treatment of the tissues with radioprotectants, for 0.5-6.0 h, followed by radiochem. sterilization. The radioprotectants are polyhydric alcs., DMSO, and, preferably, 30% propylene glycol. Dural tissue was defatted with a CHCl<sub>3</sub>-EtOH mixt. (2:1), washed, treated with 30% propylene glycol, freeze-dried and radiosterilized. The tissue may be

shaped prior to sterilization.

ST tissue animal implant radiosterilization radioprotectant

IT Radioprotectants

(animal tissue implants treatment with, prior to sterilization)

IT Animal tissue

(for implants, radiochem. sterilization of, radioprotectants in)

IT Transplant and Transplantation, animal

(radioprotectants for, in radiochem. sterilization of)

IT Surgery

(plastic, tissue implants for, radiochem. sterilization of, radioprotectants in)

IT Alcohols, biological studies

RL: BIOL (Biological study)

(polyhydric, radioprotectant, for animal tissue implants, radiosterilization in relation to)

IT **Sterilization** and Disinfection

(radiochem., of **tissue** implants, radioprotectants in)

IT 57-55-6, Propylene glycol, biological studies 67-68-5, Dimethyl sulfoxide, biological studies 107-21-1, Glycol, biological studies 112-27-6, Triethylene glycol 149-32-6 6917-36-8, Pentitol

RL: BIOL (Biological study)

(radioprotectant, for animal tissue implants, radiosterilization in relation to)

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